

NOTES OF SCIENCE

From Ed Howe's Monthly

Two methods of disposing of the antenna have been adopted by the military and aviation experts in working out the wireless problem with the aeroplane. The military officers who recently completed successful tests on the Pacific coast are credited with the most simple device. The great problem has been to provide a proper antenna for the aeroplane and of the circuit and the army officers do this with a strand of copper wire two feet long. A coil of fine copper wire is taken aloft and is allowed to dangle toward the ground. The experiments were completed; the wire was simply cut and allowed to fall. This class of wire is cheap and is used for a variety of purposes in military operations so that a plentiful stock of it is always at hand.

The second method, which has been successfully tested by wireless and aviation experts, consists of connecting all the wire stays of the aeroplane in series to form the antenna. On one machine that was fitted in this manner, the aggregate length of the antenna thus obtained was six feet and so well did it work that messages from shore stations around the city and even from ships at sea were received on the aeroplane instrument while the latter was in a shop on the first floor of the building of the United States Aeronautic Reserve in New York, although the wires were not connected with other antennas on the roof of the building.—From the April Popular Mechanics Magazine.

Moving Pictures Show

Aeroplane Fatality.

A moving picture film of the aeroplane accident which cost two men their lives in France when M. Lafon and M. Paula were dashed to death on the aviation field at Issy-les-Moulineaux, is reproduced in illustrated appearing in the April number of Popular Mechanics Magazine. The moving picture camera had been set up on the field to make some aeroplane pictures of the flights and just happened to be in condition to make pictures when the accident to Lafon's machine occurred. Paula was a passenger with Lafon. The camera was quickly turned toward the falling machine and a series of pictures made which shows the exact condition of the machine as it fell and how it struck the earth. The first picture on the film showed the machine beginning to fall and the fall was followed and faithfully reproduced, the film ending with the broken, twisted machine lying on the ground.

Automatic Safety Appliance to Stop Derailed Trains.

By driving a train over broken rails on a leased track near Washington, D. C., every afternoon, J. T. Andrew, an Alabama railroad man, is endeavoring to convince government officials that his safety appliance will prevent the derailment of railway locomotives and cars from any other cause than the deliberately wicked machinations of man.

The invention is simple. It consists of two extra wheels, two rollers, a valve operating the emergency brakes, and a tie-beam to prevent the falling of the brake-beam, should it happen to break. The extra wheels are of smaller diameter than the regular wheels and are attached to the axle by a case bolted to the axle; the extra wheels, with heavy double flanges and faces of 12 in., fitting just inside the regular wheels. The rollers, also of 12-in. face, are immovable, being attached to the journals just outside the regular wheels. The case strengthens the axle and prevents damage if it should break. The rollers, when in use, distribute the weight of the car on the trucks. A number of illustrations in the April number of Popular Mechanics Magazine illustrate the action of the device.

Silk Bag for Facial Make-up.

In pondering over how he could "get into" the part of Falstaff, physically as well as dramatically, a young actor hit upon this scheme of ballooning his own face and head to the full moon size of that of Shakespeare's elephantine, yet wily creation. The role calls for a "big head," and an ingeniously made silk bag having a drawstring for controlling the amount of inflation is used to secure the desired appearance. A series of illustrations in the April number of Popular Mechanics shows the make-up in its progressive stages.

NEW RICE MILL.

The K. Yamamoto Rice Mill is the largest as well as the finest in the Islands. All machinery is of the very latest pattern. The famous Tengu Rice is cleaned at this mill. With the large cleaning capacity they are able to handle considerable outside particular work which they guarantee.

One day, while sitting on my porch at Tomato Hill Farm, I saw Sam Baum's rooster pass in the road. He was going down to the chicken yard at the farmhouse, and I followed him, wondering why he was visiting so soon. I soon found out. My brother Bruce, the farmer, has a rooster who rules the chicken yard. The other roosters fought him until they found that he would not whip him, and then declared peace in keeping out of his way.

But it seems that the best rooster among Mr. Baum's chickens had heard of my brother's prize chicken, and when I arrived in the backyard, they were at it, hot and heavy. They fought for an hour, resting at intervals, but finally, our rooster drove the interloper away, and chased him up the road until he disappeared. Our rooster won the fight, but he did not seem to feel well for several days; he had been badly punished.

A week or two later, while again at the farmhouse, I saw another strange rooster come walking into the backyard. The rooster was stepping high, and looking carefully about. He was seeking a fight, and soon found it. The strange rooster belonged to Ah King, and was rather a better rooster than that sent over by Bert Baumton. Our rooster and Ah King's fought at intervals all day, but finally the stranger was compelled to retreat, and return home. But, while our rooster had won a splendid victory, he had been equally punished. For days he rested in the bay, and we saw little of him.

There was nothing in either encounter except a fight; no principle, simply punishment for the best three chickens in the neighborhood. If our rooster is compelled every week or two to whip the best rooster in the neighborhood, I plainly see the result: he will finally be compelled to give up the championship belt. He is being overhanded.

Fights of this character go on not only in every barnyard in the country, but in every store and office. Whoever has opposition has a fight on his hands. And it is men and roosters who have opposition.

At one time during my business career, I was fighting three roosters at one time; three newspapers in my town were abusing me. Several out-of-town roosters have fought me, not because I had offended them, but because it is the disposition of roosters and men to fight. There was no great prize in my barnyard, no great prospect of advancement, but I was compelled to fight as though fighting for a kingdom. And how I have been battered up! The punishment that hurt me most was the evident enjoyment the other chickens took in seeing those roosters on me at one time.

One of the roosters I gaffed as effectively as I could, afterwards became governor of the state. And the people presented me with a gold watch and silver water set.

After fighting the world all day, a business man is also often compelled to fight his women folks at night, and the preachers on Sunday. For the preachers often abuse the man as unfairly as the shiftless abuse the indolent; and so do the women.

Of the millions of patient, worthy men who "get along" by means of hard work and frugality, how many have pleasant homes? While a man may make his own business a success, he cannot have a comfortable home without assistance which he too often lacks. There is a perfect screen from the women about the men, yet the men of this country do more for their women folks than the men of any other country. Look at the army of idle women, living off the labor of industrious men; and listen awhile to the talk of the women about the men! It's the same story told about old Hickokeller; something in it, but not as much as might be truthfully said on the other side.

THE CITY CHURCHES

Central Union Church.

9:50 a. m. Bible School. Mr. W. A. Bowen, superintendent.

Men's League Bible Class, conducted by the Assistant Minister. "Jesus Attitude Toward the Rich People of His Day."

Women's Society Bible Class, Prof. W. J. Gilmore, teacher. Following Dr. Egerton's "Study in the Acas."

11 o'clock, morning worship. Sermon by the minister, Rev. Doremus Suddler, D.D. "The Business Point of View."

6:30 p. m., Christian Endeavor meeting. In charge of the prayer this purpose. No matter what your line of thought is you will meet with an honest effort to help.

Bible school at 9:45 and sermon at 11 in the morning. Christian Endeavor and sermon in the evening, the former at 6:30 and the latter at 7:30. The Sloan Mission meets at 3 in the afternoon. On Tuesday evening a Bible study class meets in the church study to which there is a general invitation, and Wednesday evening the midweek service participated in by all present, if they desire to have part.

9:45 a. m., Sunday school. Lesson topic, "Paul in Council With the Elders." Classes in Hawaiian and English.

11 a. m., preaching services. Elder G. J. Waller, speaker.

6 p. m., Zion's Religious Literary Society. Lesson topic, "Need of the Psalm of Salvation." Also musical and literary program.

7:30 p. m., evening worship. Special music by the choir.

All are cordially invited to attend any or all services.

Methodist Episcopal Church.

First Methodist Episcopal Church, corner of Beretania avenue and Victoria street.

Services, Sunday—Sabbath school at 9:45 a. m.; Morning Worship at 11 o'clock; Epworth League at 6:30 p. m.; Evening Service at 7:30 p. m.

In the absence of the pastor Rev. A. A. Ebersole will preach at the morning hour.

The evening service will be conducted by Mr. C. J. Day. It will be a service in honor of Fanny Crosby, the famous hymn writer of Brooklyn.

She has sent a special letter to lovers of her hymns in Honolulu. This service is largely a repetition of the one conducted by the Oahu Young People's Union on a few weeks ago and repeated by request. All are invited.

St. Andrew's Cathedral.

St. Andrew's Cathedral, Palm Sunday—At the 11 o'clock service Canon Ault will be the speaker. At 7:30 p. m. the Bishop will confirm a large class presented by Canon Ault and the Rev. J. Kroll, and the sermon will be Practical Religion.

In the morning the Bishop will administer Confirmation at St. Peter's Church.

Christian Church Notes.

King and Alakea streets.

We lost from our membership two of our Marine Corps young men who were granted letters, being transferred.

Fine Job Printing, Star Office.

AT THE THEATERS

Big Night at Empire

All four of the glories of the Minnie Ausmanum company—the Empire, Alton, Savoy and Park—will present programs tonight which will be the best and most varied of their shows. The Empire in addition to the stage—Princess Susanna, and Whittier and Casson, the strong vaudevillians, will show an unusually attractive film, which depicts a story of the old frontier life when a band of Indians declared war, had a war dance, and舞 upon the unsuspecting frontier people. A little Indian girl saves the settlers and most of them are saved, while she gives up her life. The singer will give her light-voiced art, and Whittier and Casson will render a series of popular songs.

Dancers at the Bijou.

The famous Hidalgo, the graceful actress from Madrid, Spain, will give their famous dance of Argentine, the *Macarena*, which is decidedly original. In her song "La Tontilla" Senora Hidalgo renders the catchy music in Spanish. In her own fascinating manner, and in the dance following it with Senor Hidalgo, she gives evidence that she is one of the prettiest of her nation. Senor Hidalgo is "an exceedingly graceful dancer. The *Bohemian*" to be seen tonight, is one of their best. Jones and O'Brien will present their side-split.

the farce, "The Soldier and the Girl" last evening two Russians, in their national dress, appeared as amateurs and made one of the greatest of hits. Their music and dancing was typical of Russian and their costumes in keeping. They were given an ovation.

ROYAL HAWAIIAN.

Business at the Royal Hawaiian Garage has been excellent in every way during the week. Manager Wells reports that he has been busy in every department, and things look very bright for the future.

The arrival of the other two Alco trucks is looked for by any boat now, and in all likelihood the Sierra will bring them on Friday next. The successful trials of the one already received have led Manager Wells to anticipate that the other two will give the same satisfaction, and create a big demand for this brand of trucks. The reputation enjoyed by the cars manufactured by this firm would seem to be a guarantee that any Alco product was worthy of a thorough trial.

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LOZIER MOTOR CAR CO., E. E. Bodge, Local Distributor

Monday Morning

Commences the last half of our two weeks Clearing Sale, during which we have absolutely astounded those attending by the utter disregard we have had of the cost of goods in marking them for this sale.

WE MUST HAVE THE ROOM for shipments on the way. It is not a matter of price with us, but a matter of clearing our shelves.

Everything in the Store goes, and it is well known that we have one of largest and complete stocks of goods in Honolulu. Wearing apparel for Men, Women and Children.

DO YOUR SPRING BUYING NOW

Yee Chan & Co.

Cor. King and Bethel.

A LONG HIKE.

The Trail and Mountain Club pedestrans will set out at three o'clock this afternoon on a long hike from Kai-muli to Nuuanu, via Makapuu Point and the Pali, which distance they expect to cover inside of twenty-four hours. The walkers will proceed leisurely and expect to spend the night in the caves at Makapuu, spend a few hours in surf swimming in the morning and get to the top of the Pali somewhere in the neighborhood of three o'clock tomorrow. It is anticipated that between seventy-five and a hundred will make the trip, under the guidance of bushy Fred Ziegler.

The Makings—First Physician—Can you make anything out of the patient's trouble?

Second Ditto—I think if we manage right we can make about five hundred apiece out of it.—Baltimore American.

Fine Job Printing, Star Office.